

INDEX FOR TECHNICAL NEWS  
BULLETIN, 1929

A

	Page
Absorption of clay brick	3
Acidity of paper	146
Addressing machines, paper stencils for	44
Aircraft instruments, damping liquids for	76
Aircraft, radio developments applied to unidirectional beacon for	77
Airplane engine ignition shielding	1
Airplane engine testing, present status of	70
Airplane engines, commercial, type testing of	9
Airplane, radio equipped	100
Alcohol, amyl, isometric, optically active	19
Alloys, liquid shrinkage of	73
American Dental Association, cooperative research work	13
American Gauge Design Committee, meeting of	12
American Physical Society, meeting of	97
American Society for Testing Materials' cement reference laboratory	42
Amyl alcohols, isometric, optically active	93
Aqueous solutions, hot, as cooling media	73
Arsenic, spectrum of	87
Atomic dimension, relationship between optical rotation and	69
Automobiles, power loss in	73

B

Beacon, unidirectional radio, for aircraft	1
Beacons, radio marker	108
Bearings	73
Blended fuels	53
Boiler plugs, increasing reliability of	88
Brick, clay, absorption of	3
compressive and transverse strength of	25
sand lime, freezing tests on	67
strength of	25
strength, relation of, to masonry strength	78
Bricks, insulating, thermal expansion of	89
Broadcasting stations, testing of piezo oscillators for	40
Bromine, spectrum of	19
Builders' template hardware, commercial standard for	69
Building and plumbing code tabulation	96
Building construction, November, 1928	80
August, 1929	6
statistics and economics of	96
Bulk of paper, measurement of	81
Bursting strength tester, variation in	68

C

Cast stone	26
Cellulose from sugar-cane	86
in paper, determination of	99
structure formulas	55
Cement, Portland, reference laboratory	93, 110
Ceramic silicates, decomposition of	33
Ceramic Society of England, visit of	41
China clay, English	121
Chinaware testing machine	56

	Page
Chlorine, spectrum of	51, 69
Chromate tanned leather, tensile strength of	24
Chromium plated laboratory weights	23
Circles, precision, graduation of	85
City planning and zoning	112
Clay bodies, burned, change of volume during use of	57
Clay brick, absorption of	3
Clay brick walls, compressive strength of	89
Clay, China, English	121
Clay slips, control of, by use of electrolytes	39
Clays, abrasives action of, on dyes	89
china, colloidal content of	2
English china, coefficient of expansion of	33
fire, study of	79
Code tabulation, building and plumbing	80
Coils and spirals, formulas for calculation of inductance of	77
Commercial airplane engine testing, present status of	9
Commercial airplane engines, type testing of	100
Commercial standard for brass pipe nipples	7
builders' template hardware	96
record and printing papers	98
Commercial Standards Monthly, announcement of	49
Commercial weighing and measuring equipment, specifications and tolerances for	10
Concrete, diatomaceous silica as admixture in	4, 16
Consistency measuring instruments for calcined gypsum	17
Construction activities, July, 1929	90
August, 1929	96
September, 1929	112
October, 1929	122
Cooling media, hot aqueous solutions as	87
Course indicator, vibrating reed	116
Course-shift indicator for double modulation type radio beacon	77
Cutting fluids, more efficient use of	104
D	
Damping liquids for aircraft instruments	76
Dental Association, American, cooperation with	12
Diatomaceous silica as admixture in concrete	4, 16
Dies for clay extrusion machines	89
Dies, hollow ware, design factors of	110
Directive radio beacon system	116
Directory of governmental testing laboratories	58
Dyed textiles, fading of	45
E	
Electrical circuits and equipment, protection of, against lightning	108
Electrical Safety Code, National, application of	21
Electrical units, new basis for	115
Electrolytes, use of, in control of clay slips	39
Electroplating researches at Bureau of Standards	43
Engine performance, automobile	76
Engines, airplane, commercial, type testing of	100

	Page	L	Page
English china clay investigation	121	Laboratories, directory of governmental testing	58
English china clays, coefficient of expansion of	33	Lathe tools, testing with shallow cuts at high speed	65
<b>F</b>			
Fading of dyed textiles	45, 81	Laundries, winter damage in	30
Felts, roofing, experimental production of	69	Leather, rigging, specification for	119
Fiber strength of wood poles	119	Leathers, chrome and vegetable tanned, tensile strengths of prevention of mold growths on	24
Fiber wall board	110	Ledger paper, cooperative development of permanent	30
Films, photographic, safeguarding storage of	65	Light, Waidner-Burgess standard of	107
Fire-hazard tests of jute	79	Lightning, protection of electrical circuits and equipment against	108
Fire-hazard tests of wooden laboratory table	53	Investigation of losses from	63
Fire resistance of hollow load-bearing wall tile	15	Lime, new soundness test for	34
Fire resistance of plaster partitions	108	Lime plaster, panel tests of	5
Fire-resistance tests of building materials and construction	41	Liquids, damping, for aircraft instruments	76
Flames, hydrogen and carbon monoxide in	42	Lubricating oil for knitting machines	120
Floor tile, rubber	111	Lubrication, fundamental research on	73
Fuels, blended	53	<b>M</b>	
Fusible tin boiler plugs, increasing reliability of	88	Machine-shop practice, more efficient use of cutting fluids in	104
<b>G</b>			
Gage blocks, measurement of, by Zeiss interferometer	96	Manufacturers, willing-to-certify	5
Gas-meter tests, present status of	11	Masonry strength, effect of brick strength on	78
Gas meters, orifice, for large volumes	11	Metals, spotting of plated or finished	54
Gas, natural, gasoline content of orifice meters for measuring large volumes of	52	Meters, orifice, for measuring large volumes of gas	106
Gasoline content of natural gas, new method for determination of	106	Milk-bottle caps, tabs for	45
Gasoline, natural, volatility of revised specification for	52	Mixer for rubber	1
Glasses, special window, effect of ultraviolet radiation upon	58	Mold growths on leathers, prevention of	86
Glazed fit, fundamental study of	85	<b>N</b>	
Governmental testing laboratories, directory of	61	National Electrical Safety Code, application of	21
Graduation of precision circles	103	National Screw Thread Commission, meeting of	97
Guns, identification of	116	Natural gas, gasoline content of	52
Gypsum, calcined, consistency measuring instruments for	18	Nipples, brass pipe, commercial standard for	7
<b>H</b>			
Hardware, builders' template, commercial standard for	96	<b>O</b>	
High-speed steel, testing lathe tools with light cuts	65	Oil for knitting machines	120
Hollow-ware dies, design factors of	110	Optical rotation, relationship between atomic dimension and	73
Horsepower correction for atmospheric humidity	72	Orifice-meter tests, present status of	11
House survey, small	76	Orifice meters for large volumes of gas	11, 106
Humidity, effect of, on old weights	81	<b>P</b>	
<b>I</b>			
Identification of typewriters, guns, and bullets	38	Paint for street-designation signs	87, 111
Ignition shielding, airplane engine	61	Paint on wood panels, accelerated test for	87
Indicator, course-shift, for double modulation type radio beacon	70	Paints, artificial weathering of	118
Inductance of coils and spirals, comparison of formulas for calculation of	77	Paper, acidity of	54
Instruments, aircraft, damping liquids for	77	Cellulose determinations	99
Insulating bricks, thermal expansion of	76	Ledger, cooperative development of permanent	30
Interferometer, Zeiss, for measuring gage blocks	40	measurement of bulk of	68
International Technical Consulting Committee on Radio Communication	96	stencils for addressing machines	44
Invoice form, simplified	7	Paper Technical Association, visit of	111
Iodine, spectrum of	69	Paper tester, variables in	2
<b>J</b>			
Jute, fire-hazard tests of	40	Paper-testing standards	29
<b>K</b>			
Keene's cement, tests of	120	Paper towels, deterioration of	86
Knitting machines, lubricating oil for	79	Papers, permanence of record and printing, standards for	118
Krypton, spectrum of	79	sheathing, properties of	98
<b>L</b>			
Laboratories, directory of governmental testing	40	P. C. E. determinations, equipment for	109
Lathe tools, testing with shallow cuts at high speed	40	Piezo oscillators for broadcasting stations, testing of	19
Laundries, winter damage in	40	Pipe lines, protective coatings for	44
Leather, rigging, specification for	40	Pipe nipples, brass, commercial standard for	7
Leathers, chrome and vegetable tanned, tensile strengths of prevention of mold growths on	40	Pipettes, new instrument for testing	37
Ledger paper, cooperative development of permanent	40	Plaster, lime, panel tests of	5
Light, Waidner-Burgess standard of	40	Plaster partitions, fire resistance of	108
Lightning, protection of electrical circuits and equipment against	40	Platinum sponge, preparation of very pure	106
Investigation of losses from	40	Plumbing-code tabulation	80
Lime, new soundness test for	40	Poles, wood, fire strength of	119
Lime plaster, panel tests of	40	Portland-cement reference laboratory	55
Liquids, damping, for aircraft instruments	40	Power loss in automobiles	76

Page	Page		
Preservation of publications	82	Steels, rail, effect of service on endurance properties of	32
Preservative treatments for stone	94	Stone, cast	26
Protective coatings for pipe lines	44	preservative treatment for	94
Publications, preservation of	82	Stormer viscometer	104
<b>R</b>		Street-designation signs, paint for	87
Radiation, solar, measurement of ultra-violet in	107	Sugar cane, cellulose from	86
Radio Communication, International Technical Consulting Committee on	85	Sun checking of rubber	111
Radio developments applied to aircraft	77	<b>T</b>	
Radio-equipped airplane	19	Table, wooden laboratory, fire-hazard test of	53
Radio-marker beacons	108	Textiles, fading of, in daylight and in carbon arc light	81
Radio range, visual	77	Thermal expansion of bricks for insulating purposes	40
Radio-signal transmissions of standard frequencies, March to July, 1929	22	Thermal expansion of spinel	121
July to December, 1929	58	Tile, load-bearing wall, fire resistance of	15
Radiobeacon, course-shift indicator for	77	Tire equipment, letter circular on	68
directive	116	Towels, paper, deterioration of	86
system, directive	1	Tracing cloth, transparency of, to ultra-violet light	30
unidirectional, for aircraft	32	Twenty-Second National Conference on Weights and Measures	49
Rail steels, effect of service on endurance properties of	55	Typewriters, identification of	61
Reference laboratory for Portland cement	26	<b>U</b>	
Refractories, investigation of	119	Ultra-violet radiation, effect of, upon special window glasses	116
Rigging leather, specification for	69	Ultra-violet solar radiation	107
Roofing felts, experimental production of	73	Ultra-violet transparency of tracing cloth	30
Rotation, optical, relationship between atomic dimension and	111	Unidirectional radiobeacon for aircraft	1
Rubber floor tile	1	Utility commission engineers, State, conference of	51
mixer for	119	<b>V</b>	
sponge	111	Vapor lock, vapor pressure and	120
sun checking of	14	Vegetable-tanned leather, tensile strength of	24
testing, importance of temperature and humidity control in	17	Vibrating reed course indicator	116
<b>S</b>		Viscometers, Stormer and other rotation	104
Safety Code, National Electrical, application of	95	Viscosity samples, standard	27, 34
Sagger investigation	21	Volatility of natural gasoline and blended fuels	53
Sand-lime brick, freezing tests on	67	<b>W</b>	
San Francisco branch laboratory, enlargement of	91	Waindner-Burgess standard of light	107
Scaling, repair of heavy-capacity	38	Wall boards, fiber	110
Sheathing papers, properties of	80	Wall paper, commercial standard for	44
Shrinkage, liquid, of alloys	13	Wall tile, load-bearing, fire resistance of	15
Signs, street, paint for	111	Walls, clay brick, compressive strength of	89
Silica, diatomaceous, as admixture in concrete	4, 16	Waterproofing compounds for concrete	39
Silicates, ceramic, modified method for decomposition of	33	Weathering of paint	118
Silk, weighting on, determination of	99	Weighing and measuring equipment, commercial, specifications and tolerances for	10
Simplified invoice form	7	Weighting on silk, determination of	99
Softening-point determination, equipment for	109	Weights and Measures, Twenty-Second National Conference on	38, 49
Soil-corrosion studies, second progress report on	88	Weights, laboratory, chromium plated, variation of old, with humidity	23
Solar radiation, ultra-violet	107	Willing-to-certify manufacturers	38, 46
Specifications and tolerances for commercial weighing and measuring equipment	10	Winter damage in laundries	30
Spectra of chlorine, bromine, iodine, krypton, xenon, and arsenic	69	Wood fibers, quality of purified	23
Spectrum of chlorine	51	Wood panels, accelerated test for paint on	87
Spinel thermal expansion of	121	Wood poles, fiber strength of	119
Spirals wound with wire of large cross section, comparison of formulas for calculation of inductance of	77	<b>X</b>	
Sponge rubber	119	Xenon, spectrum of	69
Spotting of plated or finished metals	54	XYlose factory in operation	34
Stainless oil for knitting machines	120	<b>Z</b>	
Standard frequency radio transmissions, March to July, 1929	22	Zeiss interferometer for measuring gage blocks	96
July to December, 1929	58	Zoned municipalities, number of	96
Standard samples (February, 1929) (March, 1929) (April, 1929)	46	Zoning, city planning and	112
Standard viscosity samples	27, 34		
State utility commission engineers, conference of	46, 51		



1-16

1-1